

8 signal and in said second communication mode using a  
9 radiofrequency signal, wherein said first and second devices  
10 transceive a plurality of messages therebetween in said second  
11 communication mode at least when the first device has a remote  
12 location with respect to a range of the second device in the  
13 first communication mode; and

14 wherein, prior to transceiving a security message  
15 therebetween, said first and second devices switch transceiving  
16 to said first communication mode, and transmit said security  
17 message in said first communication mode.

1 3. The communications system according to claim 1, wherein  
2 said first and second devices, upon completion of the  
3 transceiving of said security message, switch transceiving  
4 therebetween to said second communication mode.

1 4. The communications system according to claim 1, wherein  
2 said security message comprises a plurality of encryption keys  
3 for the subsequent encryption of a plurality of said messages  
4 transceived in said second communication mode.

1 5. The communications system according to claim 1, wherein  
2 upon said second device switching said transceiving to said first  
3 communication mode, said second device transmits an infrared  
4 request message to said first device.

1           6.    The communication system according to claim 5, wherein  
2    said first device, upon receipt of said infrared request message,  
3    transmits said security message to said second device.

1           7.    The communication system according to claim 6, wherein  
2    said security message comprises a plurality of encryption keys  
3    for the subsequent encryption of a plurality of said messages  
4    transceived in said second communication mode.

1           8.    The communication system according to claim 1, wherein  
2    said transceiving means within said first device comprises:

3                infrared transceiving means for transceiving infrared  
4    signals with said second device in said first communications  
5    mode;

6                radiofrequency transceiving means for transceiving  
7    radiofrequency signals with said second device in said second  
8    communications mode; and

9                switching means for switching between said infrared and  
10   radiofrequency transceiving means.

1           9.    The communication system according to claim 8, wherein  
2    said infrared transceiving means comprises:

3                a photodetector for receiving said infrared signals  
4    from said second device; and

5                an infrared emitter for transmitting said infrared  
6    signals to said second device.

1           10. The communication system according to claim 1, wherein  
2       said second device comprises a transceiving means therein, said  
3       transceiving means within said second device comprising:

4               infrared transceiving means for transceiving said  
5       infrared signals with said first device in said first  
6       communications mode;

7               radiofrequency transceiving means for transceiving said  
8       radiofrequency signals with said first device in said second  
9       communications mode; and

10              switching means for switching between said infrared and  
11       radiofrequency transceiving means.

1           11. The communication system according to claim 10, wherein  
2       said infrared transceiving means within said second device  
3       comprises:

4               a photodetector for receiving said infrared signals  
5       from said first device; and

6               an infrared emitter for transmitting said infrared  
7       signals to said first device.

1           12. The communication system according to claim 1, wherein  
2       said communication system is a cordless system.

1           13. The communication system according to claim 1, wherein  
2       said first and second devices are each selected from the group

3 consisting of:

4 mobile telephones, home base stations, SIM cards,  
5 headsets, computers, printers, plotters, projectors, facsimile  
6 devices, pagers, data organizers, computer terminals, scanners,  
7 microphones, PC cards, televisions, radios, stereos, VCRs, light  
8 devices, dimmers, thermostats, doors, refrigerators, freezers,  
9 ovens, washers, dryers, answering machines, home alarms, car  
10 alarms, and other peripheral and portable devices.

1 14. The communication system according to claim 1, wherein  
2 said first and second devices communicate on a radiofrequency  
3 band ranging from about 2.4 GHz to about 2.483 GHz.

1 15. The communication system according to claim 14, wherein  
2 said band is at about 2.45 GHz.

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1 27. (Twice Amended) A transceiving device for secure  
2 wireless communications in a communications system, said device  
3 comprising:

4 radiofrequency transceiving means for transceiving a  
5 plurality of radiofrequency transmissions within said  
6 communications system;

7 infrared transceiving means for transceiving a  
8 plurality of infrared transmissions within said communications  
9 system, wherein said transceiving device switches transceiving  
10 from said radiofrequency transceiving means to said infrared

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cond  
11 transceiving means prior to the transmission of an infrared  
12 security message within said communications system; and  
13 wherein at least one of the plurality of radiofrequency  
14 transmissions occurs when the transceiving device has a remote  
15 location with respect to an infrared transceiving station in the  
16 communications system.

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1 28. The transceiving device according to claim 27, wherein  
2 said infrared transceiving means comprises:

3 a photodetector for receiving said infrared  
4 transmissions; and

5 an infrared emitter for transmitting said infrared  
6 transmissions.

1 29. The transceiving device according to claim 28, wherein  
2 said infrared emitter comprises a light-emitting diode.

1 31. The transceiving device according to claim 27, wherein,  
2 after the transmission of said infrared security message, said  
3 transceiving device switches transceiving to said radiofrequency  
4 transceiving means.

1           32. The transceiving device according to claim 27, wherein  
2       said infrared security transmission comprises a plurality of  
3       encryption keys for the subsequent encryption of a plurality of  
4       said radiofrequency transmissions between said transceiving  
5       device and said communications system.

1           33. The transceiving device according to claim 27, wherein  
2       said first and second devices are each selected from the group  
3       consisting of:

4                 mobile telephones, home base stations, SIM cards,  
5       headsets, computers, printers, plotters, projectors, facsimile  
6       devices, pagers, data organizers, computer terminals, scanners,  
7       microphones, PC cards, televisions, radios, stereos, VCRs, light  
8       devices, dimmers, thermostats, doors, refrigerators, freezers,  
9       ovens, washers, dryers, answering machines, home alarms, car  
10      alarms, and other peripheral and portable devices.

1           34. The transceiving device according to claim 27, wherein  
2       said first and second devices communicate on a radiofrequency  
3       band ranging from about 2.4 GHz to about 2.483 GHz.

1           35. The transceiving device according to claim 34, wherein  
2       said band is at about 2.45 GHz.